# **PATENT COOPERATION TREATY**

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
1216WOORD01	ACTION		as, where applicable, item 5 below.
International application No.	International filing date (day/mont	∿year)	(Earliest) Priority Date (day/month/year)
PCT/EP2005/050697	17/02/2005		18/02/2004
Applicant			
ALTANA PHARMA AG			
AUTANA FRANTA AG			
This International Search Report has been according to Article 18. A copy is being tra	insmitted to the International Bureau	1.	nority and is transmitted to the applicant
This International Search Report consists of			
X It is also accompanied by	a copy of each prior art document c	ted in this	report.
Basis of the report     a. With regard to the language, the in language in which it was filed, unle	nternational search was carried out ess otherwise indicated under this it	on the bas em.	sis of the international application in the
The international s this Authority (Rule	earch was carried out on the basis 23.1(b)).	of a transla	ation of the international application furnished to
b. With regard to any nucleo	tide and/or amino acid sequence	disclosed i	in the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).		
3. Unity of invention is lack	ing (see Box III).		
4. With regard to the title,			
the text is approved as sub			
	ed by this Authority to read as follow		
DISORDERS.	FIRIDINES USEFUL IN T	HE TREA	ATMENT OF GASTROINTESTINAL
5. With regard to the abstract.			
<ol> <li>With regard to the abstract,</li> <li>The text is approved as subject.</li> </ol>	mitted by the applicant.		
the text has been established	ed, according to Rule 38.2(b), by the	s Authority	as it appears in Box No. IV. The applicant
may, within one month from	the date of mailing of this internation	mal search	h report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be put		o	
as suggested by the	, ,		
	Authority, because the applicant fai Authority, because this figure better		
b. none of the figures is to be		ona aoton	203 818 8140/160/1.
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## INTERNATIONAL SEARCH REPORT

International Application No PCT/EP2005/050697

			101/EF200	757 050097
A. CLASS IPC 7		/424 C07D333, 3/87 C07D213,		9333/24 9215/54
According t	to International Patent Classification (IPC) or to both national class	ification and IPC		
ſ	SEARCHED			
Minimum d IPC 7	ocumentation searched (classification system followed by classific CO7D A61P A61K	cation symbols)		
Documenta	tion searched other than minimum documentation to the extent the	at such documents are inclu	ded in the fields s	earched
Electronic d	lata base consulted during the international search (name of data	base and, where practical,	search terms used	1)
EPO-In	ternal, CHEM ABS Data, WPI Data, P	AJ		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the	relevant passages		Relevant to claim No.
A	US 4 358 453 A (BRISTOL, JAMES A 9 November 1982 (1982-11-09) cited in the application claims 1,8-12,16; example	A. ET AL)		1,11,12
<u> </u>	er documents are listed in the continuation of box C.	X Patent family men	mbers are listed in	annex.
"A" documer conside "E" earlier do filing da "L" documen which is citation "O" documer other me "P" documen later tha	It which may throw doubts on priority claim(s) or cited to establish the publication date of another or other special reason (as specified) at referring to an oral disclosure, use, exhibition or eans at published prior to the international filing date but in the priority date claimed	"T" later document publist or priority date and nocited to understand the invention "X" document of particular cannot be considered involve an inventive selection of the considered document of particular cannot be considered document is combined ments, such combina in the art.  "&" document member of the considered document is combined in the art.	of in conflict with the principle or theo relevance; the dad novel or cannot be step when the docing relevance; the classic to involve an investion being obvious the same patent fa	ne application but bry underlying the limed invention be considered to ument is taken alone limed invention entive step when the e other such docu- to a person skilled
	May 2005	Date of mailing of the		h report
	illing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rilswijk	25/05/200 Authorized officer	95 	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Bosma, P		

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2005/050697

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4358453 A	09-11-1982	NONE	

#### 1/9

# **PCT REQUEST**

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
	Town DOT/DO/404 DOT D	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT Online Filing Version 3.50 (Build 0001.162)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	European Patent Office (EPO) (RO/EP)
0-7	Applicant's or agent's file reference	1216WOORD01
1	Title of Invention	1,2,4-TRIAZOLO[4,3-A] PYRIDINES
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
11-4	Name:	ALTANA PHARMA AG
II-5	Address:	Byk-Gulden-Str. 2 78467 Konstanz Germany
II-6	State of nationality	DE
11-7	State of residence	DE
11-8	Telephone No.	+49-(0)7531-84-5320
II-9	Facsimile No.	+49-(0)7531-84-5321
II-10	e-mail	DEKON.IPPA-DE@altanapharma.com

III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-3	Inventor for	AP: (BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW); EA: (AM AZ BY KG KZ MD RU TJ TM); EP: (AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL PT RO SE SI SK TR); OA: (BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG); AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
III-1-4	Name (LAST, First)	BUHR, Wilm
III-1-5	Address:	Zum Kirchenwald 7 78465 Konstanz Germany
III-1-6	State of nationality	DE
III-1-7	State of residence	DE
III-2 III-2-1 III-2-4 III-2-5	Applicant and/or inventor This person is: Name (LAST, First) Address:	inventor only ZIMMERMANN, Peter Jan Zum Lerchental 43/1 78315 Radolfzell
		Germany
III <b>-3</b> III-3-1	Applicant and/or inventor This person is:	inventor only
III-3-4	Name (LAST, First)	BREHM, Christof
III-3-5	Address:	Richentalstr. 8 78462 Konstanz Germany
III-4	Applicant and/or inventor	
III-4-1	This person is:	inventor only
III-4-4	Name (LAST, First)	PALMER, Andreas
III-4-5	Address:	Pirminweg la 78467 Konstanz Germany

III-5	Applicant and/or inventor	
III-5-1	This person is:	inventor only
III-5-4	Name (LAST, First)	CHIESA, M. Vittoria
III-5-5	Address:	Alpenstr. 5
		78464 Konstanz
		Germany
III-6	Applicant and/or inventor	
III-6-1	This person is:	inventor only
III-6-4	Name (LAST, First)	SIMON, Wolfgang-Alexander
III-6-5	Address:	Schubertstraße 17
		78464 Konstanz
		Germany
111-7	Applicant and/or inventor	
III-7-1	This person is:	inventor only
III-7-4	Name (LAST, First)	POSTIUS, Stefan
111-7-5	Address:	Austraße 4b
		78467 Konstanz
		Germany
III-8	Applicant and/or inventor	
III-8-1	This person is:	inventor only
III-8-4	Name (LAST, First)	KROMER, Wolfgang
III-8-5	Address:	Hinterhauserstr. 5
		78464 Konstanz
		Germany
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of	agent
	the applicant(s) before the competent	
IV-1-1	International Authorities as:	
	Name (LAST, First)	WOLF, Ulrich
IV-1-2	Address:	c/o ALTANA Pharma AG, Byk-Gulden-Str. 2
		78467 Konstanz
I\/_1_3	Telephone No.	Germany
IV-1-4	Facsimile No.	+49(0)7531-84-5320
IV-1-5		+49(0)7531-84-5321
	e-mail	dekon.ippa-de@altanapharma.com
IV-1-6	Agent's registration No.	052382.9
IV-2	Additional agent(s)	additional agent(s) with same address as
IV-2-1	Name(s)	first named agent
14-2-1	ivaino(s)	KROEGER, Bernd (0081260);
		MECHNICH, Oliver (0099430); WILD, Robert (099982.1);
	1	TID , NODEL C (033302.1);

		<pre>KRATZER, Bernd (095541.9);</pre>
		RUPP, Herbert (00052372.0)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier regional application	
VI-1-1	Filing date	18 February 2004 (18.02.2004)
VI-1-2	Number	04003606.3
VI-1-3	Regional Office	EP
VI-2	Priority document request	
	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)
VII-2	Request to use results of earlier search; reference to that search	
VII-2-1	Date	25 June 2004 (25.06.2004)
VII-2-2	Number	04003606
VII-2-3	Country (or regional Office)	EP
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	1
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-

VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:	in relation to this international application
	Name (LAST, First)	ALTANA PHARMA AG is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, BUHR, Wilm
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, ZIMMERMANN, Peter Jan
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, BREHM, Christof
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, PALMER, Andreas
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, CHIESA, M. Vittoria
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, SIMON, Wolfgang-Alexander
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, POSTIUS, Stefan
VIII-2-1(i i)		ALTANA PHARMA AG is entitled as employer of the inventor, KROMER, Wolfgang
	This declaration is made for the purposes of:	all designations except the designation of the United States of America

VIII-4-1	Declaration: Inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:	I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.  This declaration is directed to the international application of which it forms a part (if filing declaration with application).  I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.  I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent
		identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year
		or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of
V/ID-A 4	Prior applications:	America, having a filing date before that of the application on which foreign priority is claimed.
VIII-4-1- 1	Prior applications:	

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		I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.
VIII-4-1- 1-1	Name (LAST, First)	BUHR, Wilm
	Residence: (city and either US State, if applicable, or country)	Konstanz, Germany
VIII-4-1- 1-3	Mailing address:	Zum Kirchenwald 7 D-78465 Konstanz Germany
VIII-4-1- 1-4	Citizenship:	DE
VIII-4-1- 1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	/Wilm BUHR/
VIII-4-1- 1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	01 February 2005 (01.02.2005)

IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	8	/
IX-2	Description	21	/
IX-3	Claims	7	/
IX-4	Abstract	1	/
IX-5	Drawings	0	<b>√</b>
IX-7	TOTAL	37	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	-	/
IX-11	Copy of general power of attorney	_	reference no. 2616
IX-17	PCT-SAFE physical media	-	-
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the international application	English	_
X-1	Signature of applicant, agent or common representative	/Wilm BUHR/	
X-1-1	Name (LAST, First)	BUHR, Wilm	
X-1-2 X-1-3	Name of signatory Capacity		
X-2	Signature of applicant, agent or common representative	(PKCS7 Digital Sign	ature)
X-2-1	Name (LAST, First)	WOLF, Ulrich	
X-2-2	Name of signatory		
X-2-3	Capacity		

#### Print Out (Original in Electronic Form)

#### FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

#### FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by		
	the International Bureau		